

What is claimed is

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a1

1. An infrared communication device comprising:
a substrate;

a light emitting element mounted on the substrate;

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a light receiving element mounted on the substrate;

a first lens provided on the light emitting element;

a second lens provided on the light receiving element;

the first lens having an elongated convex shape.

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2. The infrared communication device according to
claim 1 wherein the first lens has a semi-cylindrical shape.

3. The infrared communication device according to
claim 1 wherein the first lens has an elongated semi-
spherical shape.

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~~4. The infrared communication device according to
claim 1 wherein the light emitting element comprises a
plurality of light emitting elements.~~

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5. The infrared communication device according to
claim 1 wherein the first lens is elongated in a horizontal
direction.

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6. The infrared communication device according to
claim 1 further comprises a reflective cup enclosing the
first lens.

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~~7. The infrared communication device according to
claim 4 wherein the light emitting elements are arranged on
a horizontal line.~~